

CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

P.O. BOX 780 • FARMINGTON, NEW MEXICO 87499

19 September, 1990

State of Utah Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Building, Suite 350
Salt Lake City, Utah 84180-1203

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DIVISION OF
OIL, GAS & MINING
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OIL, GAS & MINING

Ref: Application for Permit to Drill
Cajon Summit 9M-1 Well, San Juan County, Utah

Gentlemen

Attached for your examination and approval is the original and two copies of an Application for Permit to Drill the Cajon Summit 9M Well No. 1 in San Juan County, Utah. This well will be drilled as part of an ongoing exploration program.

The location for this well falls outside the guidelines for the State of Utah spacing requirements. However, the location has been sited in a position which will allow the well bore to penetrate geological structures which have been identified by seismic interpretation. We therefore apply for an exception to the General State Spacing requirements. Chuska Energy controls the acreage surrounding the proposed site, by virtue of a farmin agreement, as indicated on the attached land plat.

Please advise if you require additional information concerning this application. Chuska Energy will greatly appreciate your prompt consideration.

Sincerely,

Larry G. Sessions
Larry G. Sessions
Operations Manager

LGS/csw
File: C:\WP51\CAJNSUMM.9M\APDCOVER

encl.

**STATE OF UTAH
DIVISION OF OIL, GAS AND MINING**

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. Lease Designation and Serial No. NOG 8702-1116
b. Type of Well Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		6. If Indian, Allottee or Tribe Name Navajo Tribal
2. Name of Operator Chuska Energy Company		7. Unit Agreement Name
3. Address of Operator P.O. Box 780, Farmington, New Mexico 87499		8. Farm or Lease Name Cajon Summit 9M
4. Location of Well (Report location clearly and in accordance with any state requirements.)* At Surface 470' FSL, 890' FWL At proposed prod. zone Same		9. Well No. 1
14. Distance in miles and direction from nearest town or post office* 7 miles North of Aneth, Utah		10. Field and Pool, or Wildcat Wildcat Undesignated
15. Distance from proposed location to nearest* property or lease line, ft. (Also to nearest drlg. line, if any)		11. QQ, Sec., T., R., M., or Blk. and Survey or Area S9 T40S R25E
16. No. of acres in lease 49,997		12. County or Parish San Juan
17. No. of acres assigned to this well		13. State Utah
18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft. 4,357'		19. Proposed depth 6,045' GR AKAH
20. Rotary or cable tools Rotary		21. Elevations (Show whether DF, RT, GR, etc.) 4,960' GR
22. Approx. date work will start* 12-19-90		

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12 1/4"	8 5/8"	24 lb	500'	371 sx 'G' + 2% CaCl ₂
7 7/8"	5 1/2"	15.5 lb	6,045'	839 sx 'G', 65:35 Poz + 6% Gel

Refer to attached 10-Point Drilling Plan etc.

OIL AND GAS	
DFN	RJF
JPB	GLH
DIS	SLS
1-TAS	
MICROFILM	
FILE	

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. I hereby certify that this report is true and complete to the best of my knowledge.

Signed Christopher S.W. Hill Title Petroleum Engineer Date 19 September, 1990

(This space for Federal or State office use)

API NO. 43-037-31563

Approval Date

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

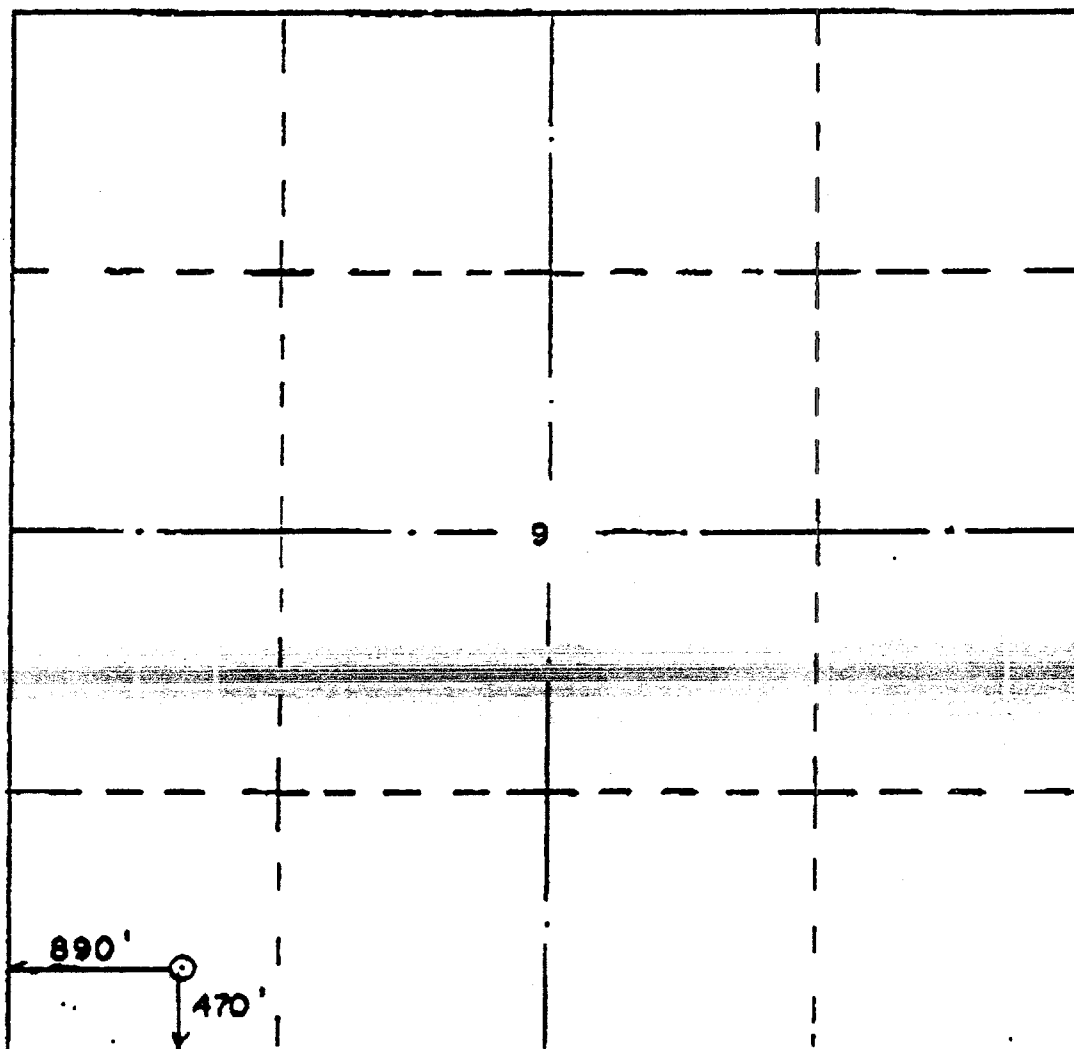
Approved by _____
Conditions of approval, if any:

Title

DATE 9/28/90
BY [Signature]
WELL SPACING: RW 5-3-3

*See Instructions On Reverse Side

WELL LOCATION AND ACREAGE DEDICATION PLAT



1"=1000'

WELL LOCATION DESCRIPTION:

CHUSKA ENERGY COMPANY, Cajon Summit 9 - M - 1

470' FSL & 890' FWL

Section 9, T.40 S., R.25 E., SLM

San Juan, UT.

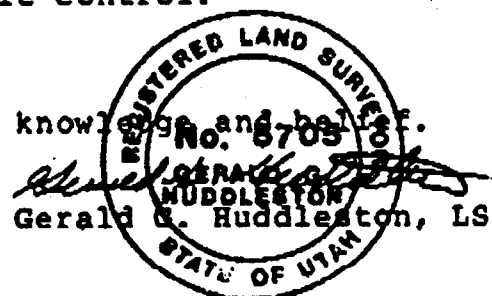
4960' ground elevation

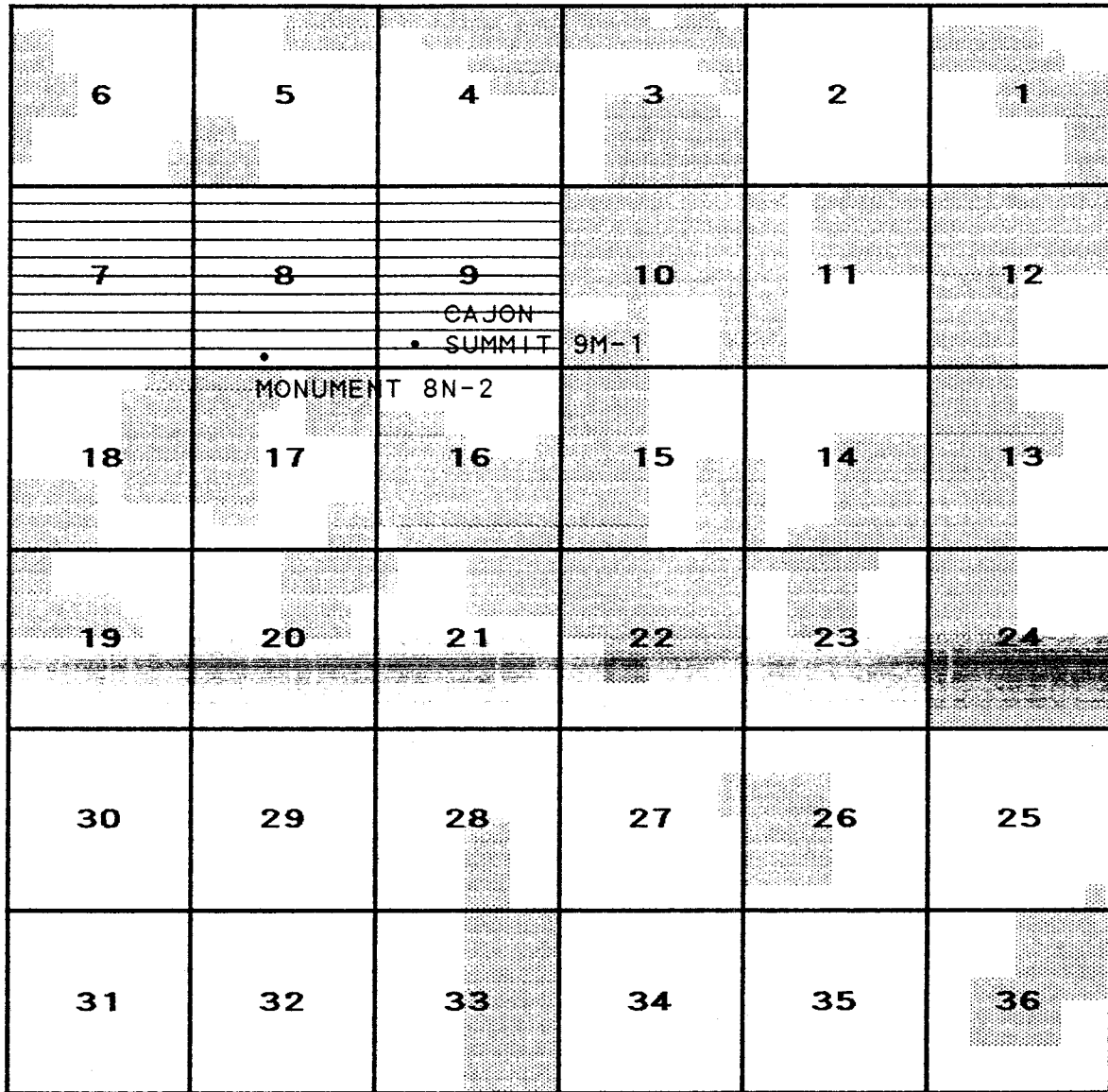
State plane coordinates from seismic control:

x = 2,673,879

y = 245,246

The above plat is true and correct to my knowledge and belief.

revised
18 September 1990



CHUSKA ENERGY COMPANY

ACREAGE POSITION UNDER THE 1987 OPERATING AGREEMENT



CHUSKA: T40S-R25E, SAN JUAN COUNTY, UTAH



FARMIN ACREAGE

CHUSKA ENERGY COMPANY

10 POINT DRILLING PLAN

Cajon Summit 9M Well No. 1
Section 9, Township 40S, Range 25E
470' FSL, 890' FWL
San Juan County, Utah

1. SURFACE FORMATION

Geological name of surface formation: Morrison

2. ELEVATION

Surface elevation is 4,960' GR.

3. ESTIMATED FORMATION TOPS

<u>Depth</u>	<u>Formation</u>	<u>Sub Sea Elevation</u>	
Surface	Morrison	+ 4,960'	
1,035'	Navajo	+ 3,925'	
1,660'	Chinle	+ 3,300'	
2,760'	DeChelly	+ 2,200'	
2,895'	Organ Rock	+ 2,065'	
3,575'	Cedar Mesa	+ 1,385'	
4,700'	Hermosa	+ 260'	
5,615'	Upper Ismay	- 655'	
5,730'	Lower Ismay	- 770'	Secondary Objective
5,805'	Desert Creek	- 845'	Primary Objective
5,985'	Akah	- 1,025'	
6,045'	Total Depth	- 1,085'	

4. PROPOSED CASING/CEMENTING PROGRAM

	<u>Depth</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Coupling</u>
Surface	500'	8 5/8"	24 lb	K-55	STC
Production:	6,045'	5 1/2"	15.5 lb	K-55	STC

Surface Cementing:

371 sx (427 ft³) Class 'G' cement with 2% CaCl₂ and 1/4 lb/sk Celloflake. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Slurry volume calculated at 100% excess over annular volume.

Production Cementing:

First Stage

T.D. to 3,500' (stage collar @ \pm 3,500'). Lead with 197 sx Class 'G' cement, 65:35 Pozmix, with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 ft³/sk. Tail with 187 sx Class 'G' cement with 2% CaCl₂. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Total of 579 ft³. Bring Class 'G' slurry to 500' above top of Upper Ismay. Cement volumes calculated at 30% excess in open hole.

Second Stage

3,500' to surface. Lead with 355 sx Class 'G' cement, 65:35 Pozmix with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 ft³/sk. Tail with 100 sx Class 'G' cement with 2% CaCl₂. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Total of 772 ft³. Cement volumes calculated at 30% excess in open hole.

Note: Exact slurry volumes for the production string will be adjusted according to the caliper log which will be run prior to cementing. Special adjustments may be necessary if significant amounts of salt are drilled.

5. BLOWOUT PREVENTER (See attached schematics)

As abnormal pressure is not anticipated, a 2,000 psi BOP system would be sufficient for the drilling of this well. However, due to availability constraints, a 3,000 psi system will be used, as per the attached Exhibits "A" and "B". This will be a 10" x 900 Series double ram preventer, equipped with a set of pipe and blind rams.

An accumulator system, with a pressure capacity sufficient to operate the rams three complete cycles without rig power, will be required as part of the rig equipment.

6. PROPOSED MUD PROGRAM

Surface to 5,000'

Fresh water, gel, lime and native solids. Weight 8.3 - 8.7 ppg. Gel/lime sweeps as necessary for hole cleaning.

5,000' to T.D.

Low solids, non-dispersed polymer system. Weight 8.6 - 9.5 ppg. Gel/lime sweeps as hole conditions dictate for hole cleaning. Fluid loss to be maintained at 15 - 20 cc. Fluid loss to be further reduced to 15 cc or less prior to coring, logging or DSTs.

7. AUXILIARY EQUIPMENT

- A. A kelly cock will be installed during drilling operations, with handle available on the rig floor.
- B. Floor (stabbing) valves will be available, on the rig floor at all times, with necessary subs to fit all of the drilling assemblies.
- C. Mud will be the circulating fluid. No abnormal formation pressures are expected.

8. WELL EVALUATION

Open hole electric logging program will consist of a minimum program of DLL-MSFL-SP-GR-Cal, FDC-CNL-GR-Lithodensity from T.D. to 4,500'.

Coring and/or drill stem testing will be as per the wellsite geologist's recommendations, based on shows. A mud logging unit will be utilized during drilling operations from at least 500' above the Upper Ismay.

9. ABNORMAL PRESSURES/GAS

~~Abnormal pressures are not anticipated. Monitoring of gas and hydrocarbon shows will be by wellsite mud logging unit. H₂S gas is not anticipated, however regular checks will be made while drilling the well.~~

10. TIMING

The drilling and evaluation of this well is estimated to be 16 days. Anticipated spud date is 12-19-90.

EXHIBIT "A"
BLOWOUT PREVENTER

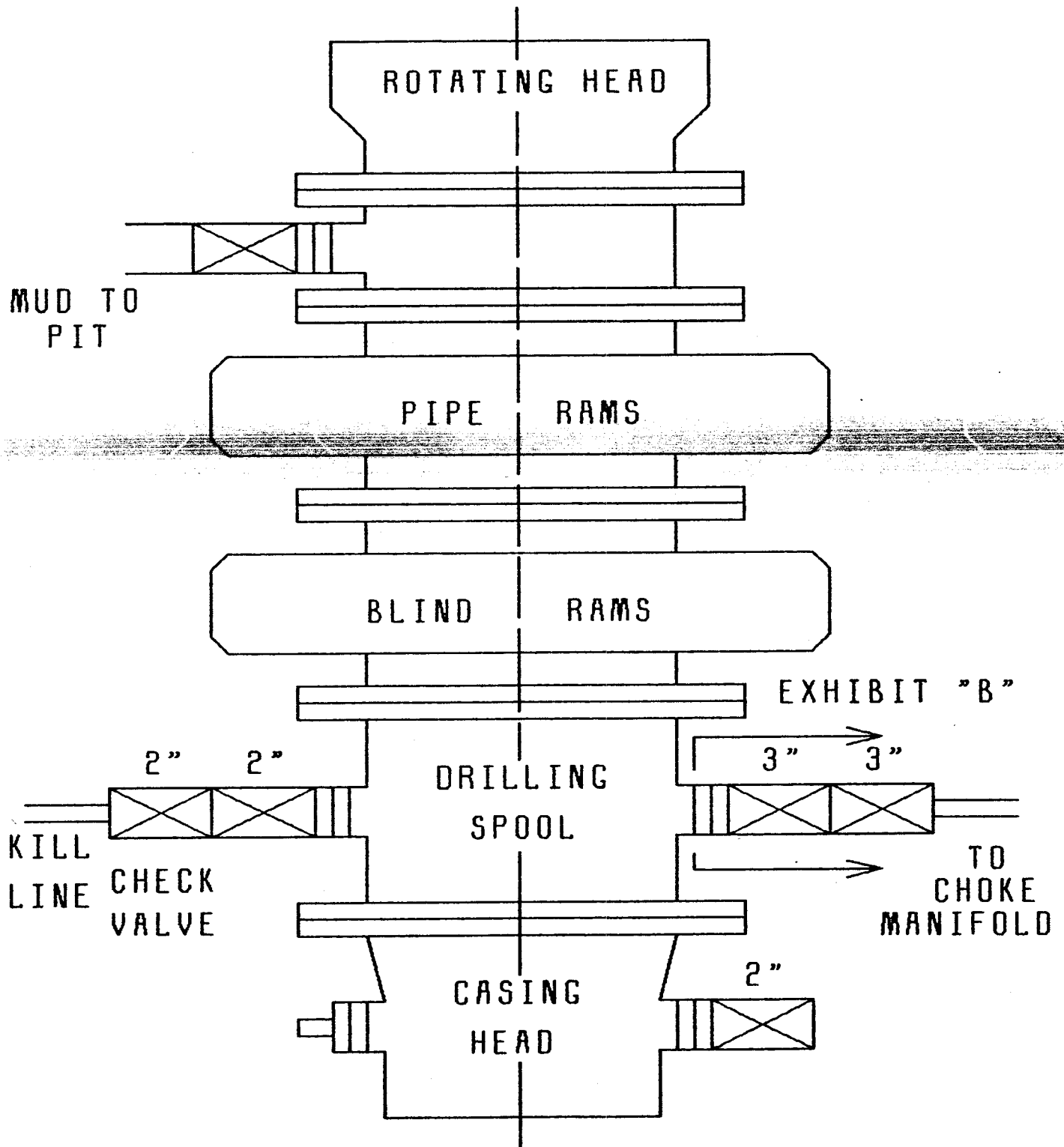
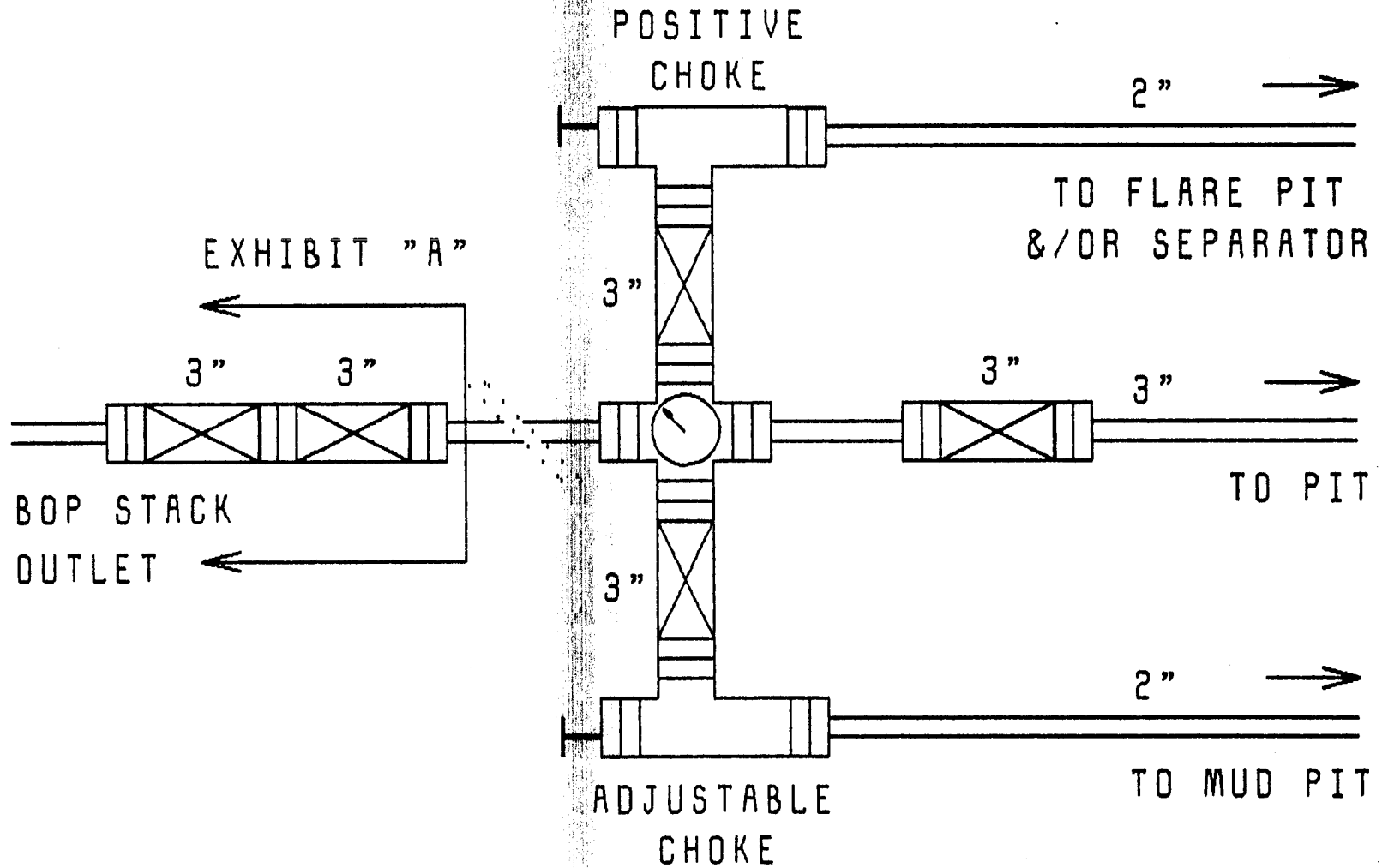


EXHIBIT "B"
CHOKE MANIFOLD



DETAILED DRILLING PROGRAM

DATE: 19 September, 1990

WELL NAME: Cajon Summit 9M WELL NO.: 1

LOCATION: Section 9, Township 40S, Range 25E
470' FSL, 890' FWL
San Juan County, Utah

ELEVATION: 4,960' GR

TOTAL DEPTH: 6,045' GR

PROJECTED HORIZON: Primary target is Desert Creek at 5,805'.
Secondary target is Lower Ismay at 5,730'.

DRILLING, CASING AND CEMENTING PROGRAM

1. Move in and rig up rotary tools. Notify BLM of time of spud and intent to run surface casing.
2. Drill mouse hole and rat hole. Mix mud prior to spudding well.
3. Drill 12 1/4" hole to \pm 500'. Use fresh water gel/time spud mud for drilling surface hole. Well bore inclination is not to exceed 1° at 500'. Deviation surveys will be run at least at 250' and at casing point.
4. Run 8 5/8", 24 lb/ft, K-55, STC casing to T.D. Cement with 371 sx (427 ft³) of Class 'G' cement with 2% CaCl₂ and 1/4 lb/sk Celloflake (sufficient slurry volume to circulate cement to surface)
5. W.O.C. a minimum of 4 hours prior to nipping up BOP stack and related equipment. See BOP schematics for details.
6. Ensure that plug has been down at least 8 hours prior to commencing pressure testing procedures. Pressure test BOP to 2,000 psig for 30 minutes. Pressure test manifold and all related equipment to 2,000 psig. Pressure test casing to 1,500 psig for 30 min.
7. Drill out surface casing with 7 7/8" bit. Drill 7 7/8" hole to T.D. Deviation surveys are to be taken every 500' or on a bit trip, whichever occurs first. Maximum allowable deviation will be 5° at T.D., with the maximum allowable rate of change to be 1°/100'.
8. Run open hole logs and evaluate. Coring and/or drill stem testing will be as per wellsite geologist's recommendation.
9. If the well is determined to be productive, run 5 1/2", 15.5 lb/ft, K-55, STC casing to T.D. Set stage cementing collar at \pm 3,500'. In addition to placing centralizers over potential

production zones, they will also be run to cover the aquifer sands of the Navajo and DeChelly formations, as per BLM stipulations. Cement production casing in two stages as per cementing program in 10-point Drilling Plan.

10. Nipple down BOPE. Set 5 1/2" casing slips and cut off casing. Install well head. Release drilling rig and move rig off location.
11. If well is non-productive it will be plugged and abandoned as per State, BLM and Navajo Tribal stipulations.

Cajon Summit 9M Well No. 1
Section 9, Township 40S, Range 25E
470' FSL, 890' FWL
San Juan County, Utah

GENERAL COMPLETION PROCEDURE

If the well is determined to be productive, move in completion rig. Perforate, acidize, and test each productive porosity zone. Completion work will commence after Sundry Notice approval is received. Detailed procedures will follow.

PLUGGING AND ABANDONMENT

If the well is determined not to be productive, the well bore will be plugged as per BLM, State and Navajo Tribal requirements.

Cajon Summit 9M Well No. 1
Section 9, Township 40S, Range 25E
470' FSL, 890' FWL
San Juan County, Utah

SURFACE USE PLAN

1. EXISTING ROADS

Shown on the attached topographic map are the existing roads in the immediate area. Outlined is the route to be followed from Aneth. Existing roads will be maintained, as necessary, while operations are in progress.

2. PLANNED ACCESS ROAD (SHOWN IN RED)

The access road will be as shown on the attached topographic map. The road will be flat bladed, constructed 14' in width and will be maintained as necessary to prevent excessive damage to the existing terrain. The road will be upgraded if commercial production is established. Approximately 1,500' of new road will need to be constructed to the location pad. The remainder of the access route will follow either existing seismic lines or pipeline right of ways.

3. LOCATION OF EXISTING WELLS & TANK BATTERIES

There are no other producing wells or facilities in the immediate area.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

No production facilities are presently in place. Should the well prove to be productive, facilities (tank battery etc) will be sited on the drilling location pad.

5. LOCATION & TYPE OF WATER SUPPLY

Water will be acquired from the San Juan River and will be hauled using Chuska Energy Company water trucks, under State of Utah Division of Water Rights Permit Number 09-1722, (T64794).

6. SOURCE OF CONSTRUCTION MATERIALS

The need for additional construction materials is not anticipated. In the event that additional materials are required, they will be acquired either from private sources or with the approval of the Navajo Nation.

7. METHODS OF HANDLING WASTE MATERIAL

Trash will be contained on location in an enclosed bin. It will be hauled to an approved disposal site or burned on location if a burning permit is granted. The reserve pit will be lined, with an approved 7 mil liner, for containing drilling fluids. The pit will also be fenced. All drilling fluids, cuttings and chemical waste will be stored in the reserve pit. Liquid hydrocarbons will be stored in temporary storage tanks and hauled from location to approved sales facilities. The reserve pit will be emptied, back filled and restored to natural terrain status upon completion of drilling operations.

8. ANCILLARY FACILITIES

Chemical portable toilet facilities will be provided on location during drilling and completion operations. No camps or air strips are planned for this well.

9. WELL SITE LAYOUT

Attached is a surveyor's staking plat, cut and fill diagram and a schematic of the proposed rig layout.

10. PLANS FOR RESTORATION OF THE SURFACE

The location is laid out on an east/west trend and will require up to 7' of cut in the reserve pit (up to 6' of cut in the south eastern corner of the location pad) and up to 4' of fill in the north western corner of the location pad. Top soil removed from the pad will be stored at the well site. A reserve pit will be built on terrain containing sparse native vegetation. After drilling operations are complete, drilling fluid in the reserve pit will be allowed to evaporate. All remaining fluid in the pit will be disposed of into an approved disposal site. The reserve pit will remain fenced during the evaporation and disposal process. The pit will then be covered and the topsoil will be returned to the disturbed area. The terrain will be returned as near to its original condition as possible. Following operations, rehabilitation seeding will be in accordance with APD/BLM/BIA stipulations. There are no residents in the immediate area of the site.

11. OPERATORS REPRESENTATIVE

CHUSKA ENERGY COMPANY
3315 BLOOMFIELD HIGHWAY
FARMINGTON, NEW MEXICO 87402
LARRY G. SESSIONS

12. CERTIFICATION

I hereby certify that either I, or persons under my direct supervision have inspected the proposed drill site and access route: that I am familiar with the conditions which presently exist: that the statements made in this plan are, to the best of my knowledge, true and correct and that the work planned will be performed by Chuska Energy, or its sub-contractors, in conformity with the terms and conditions under which it is approved.


LARRY G. SESSIONS
Operations Manager

CHUSKA ENERGY COMPANY

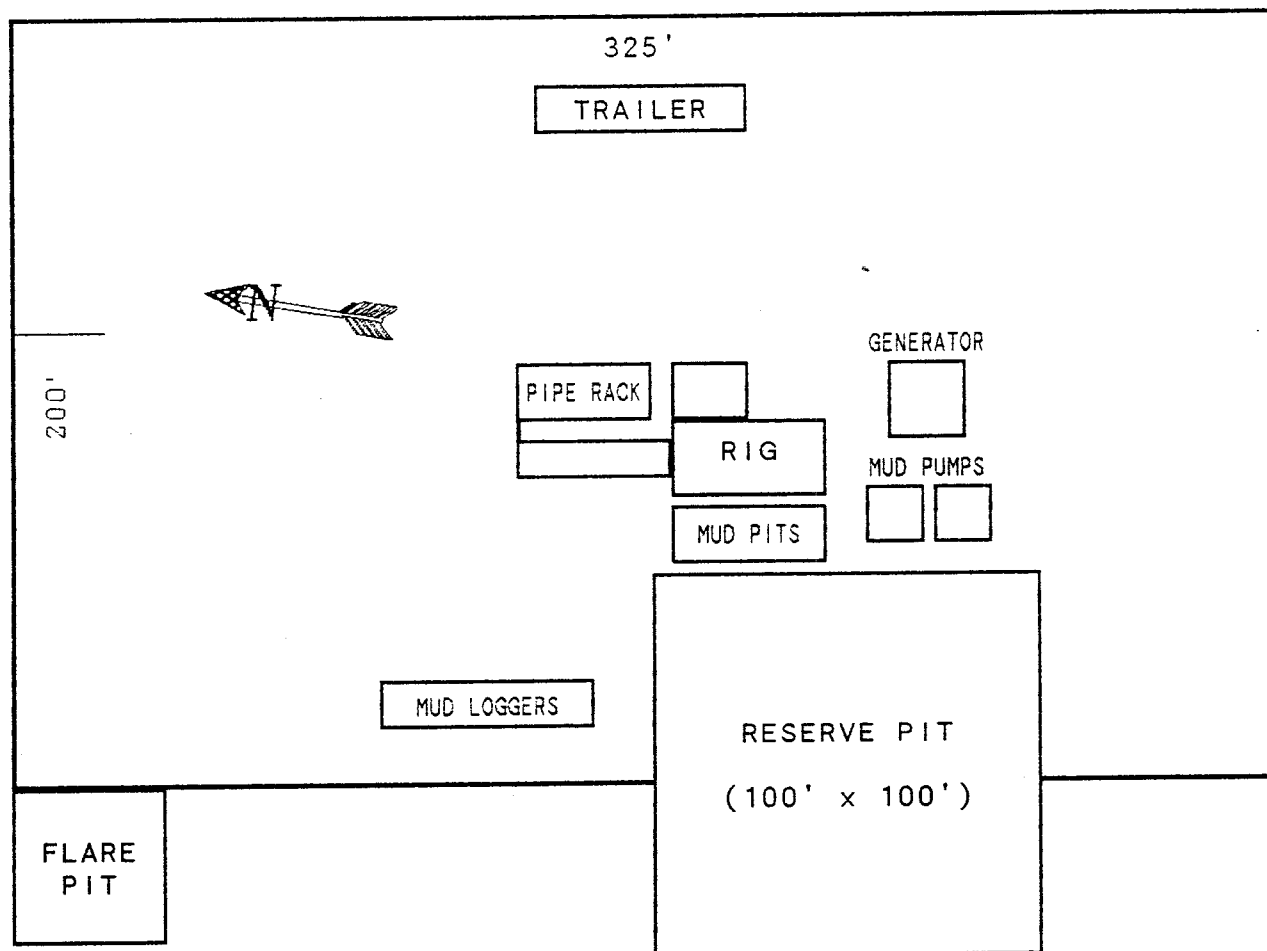
LOCATION LAYOUT

CAJON SUMMIT 9M-1

470' FSL, 890' FWL

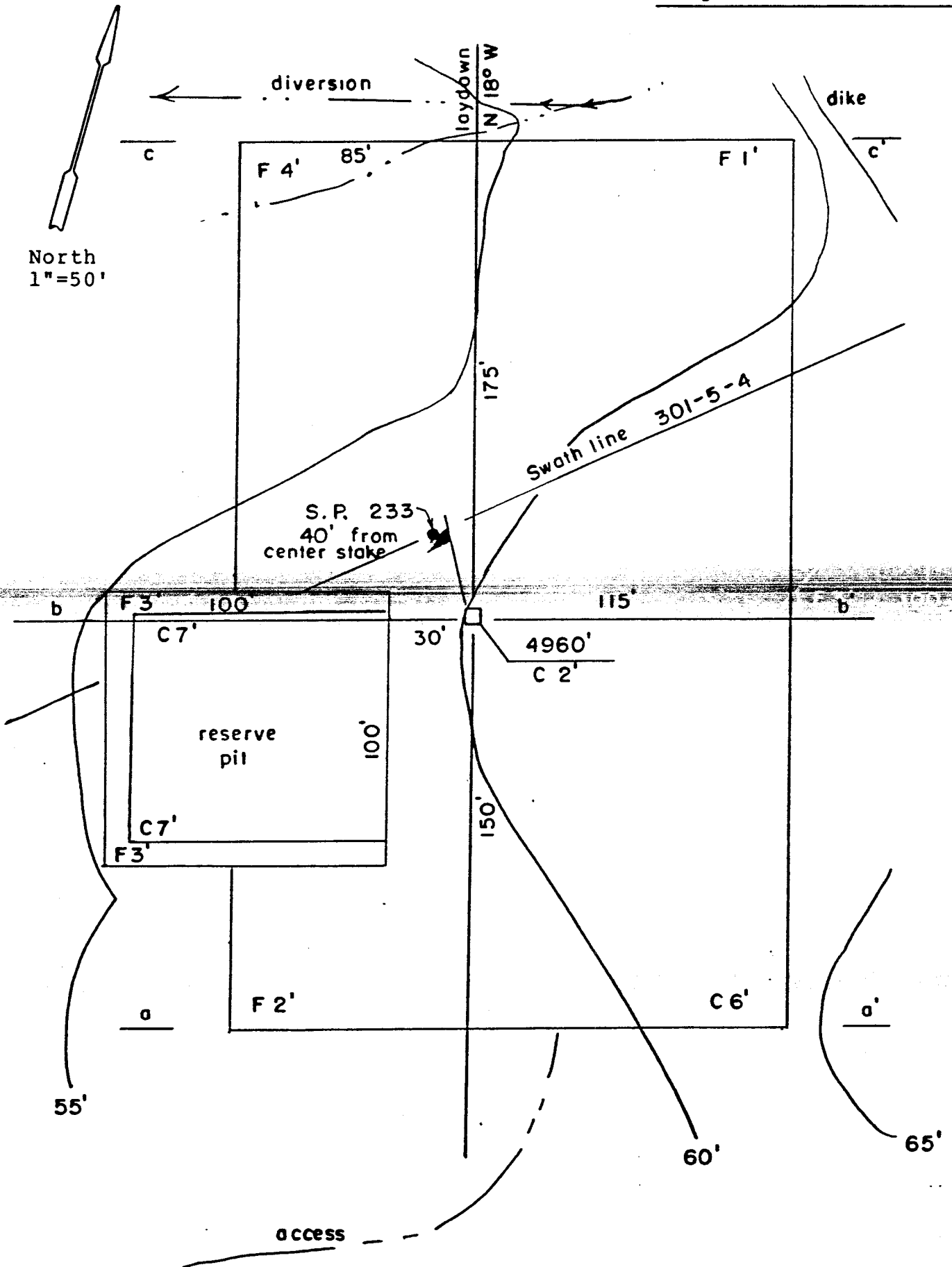
SECTION 9, TOWNSHIP 40S, RANGE 25E

SAN JUAN COUNTY, UTAH



Plan View Sketch

Cajon Summit 9 - M - 1

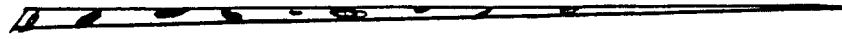


Cross Section

Cajon Summit 9 - M - 1

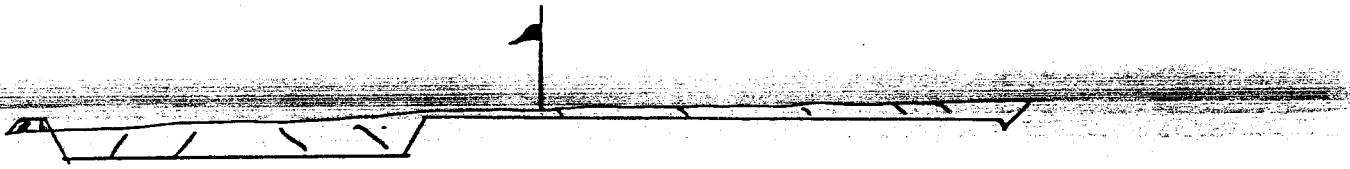
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Fill ///

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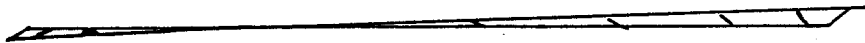
c

c'



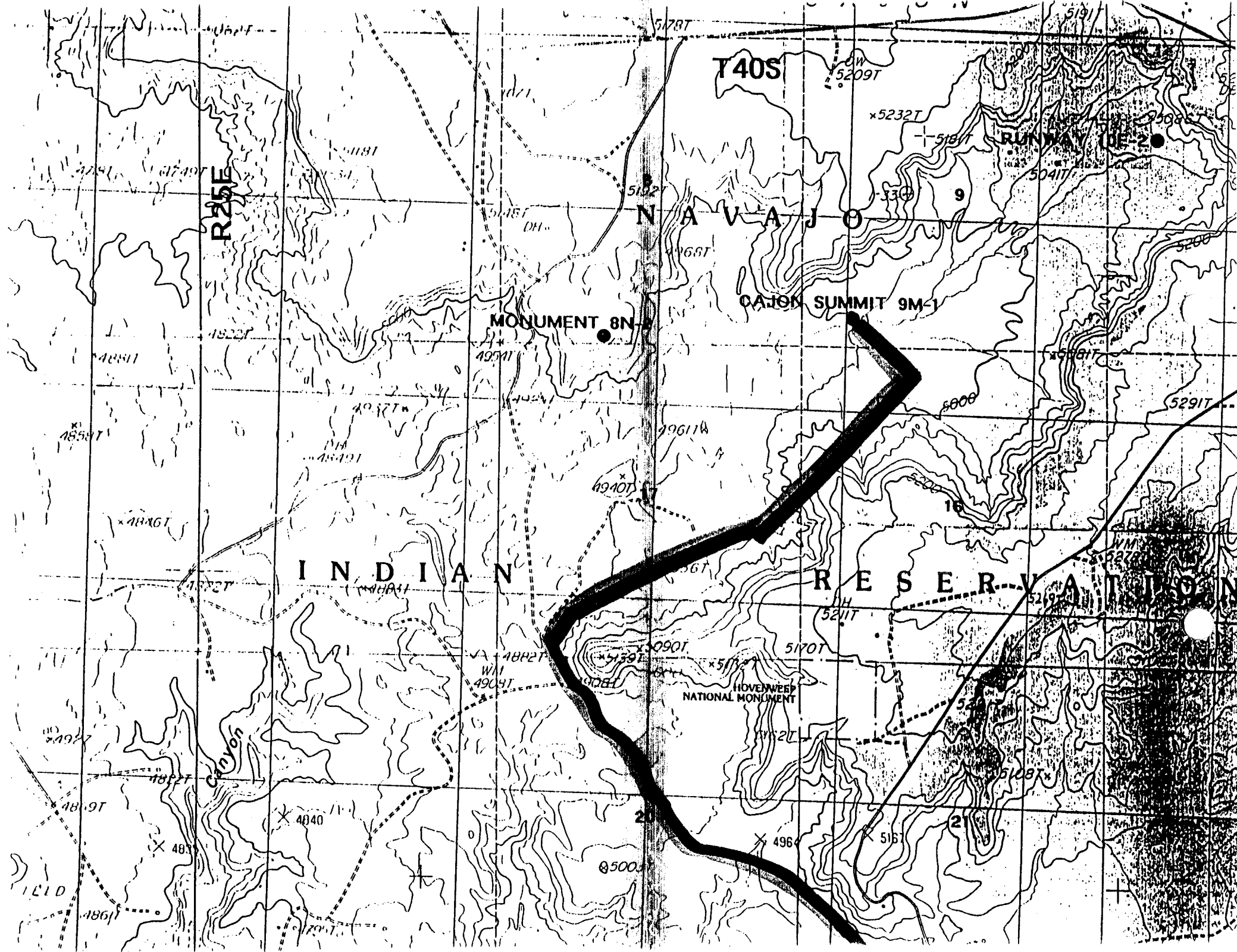
b

b'



a

a'



OPERATOR Chuska Energy Co DATE 9-08-90

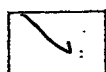
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SEC S4S49 T 40S R 05E COUNTY San Juan

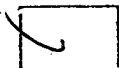
43-037-31503
API NUMBER

Indian
TYPE OF LEASE

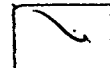
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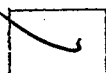
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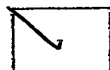
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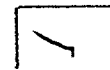
NEAREST
WELL



LEASE



FIELD
SLBM



POTASH OR
OIL SHALE

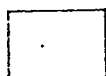
PROCESSING COMMENTS:

Water Permit 09-1700 (T64794)

Exception Location

APPROVAL LETTER:

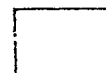
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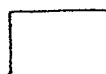
R615-2-3

N/A

UNIT

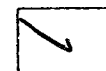


R615-3-2



N/A

CAUSE NO. & DATE



R615-3-3

STIPULATIONS:

cc: BIA

~~CONFIDENTIAL~~

PERIOD
EXPIRED

ON 3-1-98



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

September 28, 1990

Chuska Energy Company
P. O. Box 780
Farmington, New Mexico 87499

Gentlemen:

Re: Cajon Summit 9M #1 - SW SW Sec. 9, T. 40S, R. 25E - San Juan County, Utah
470' FSL, 890' FWL

Approval to drill the referenced well is hereby granted in accordance with Rule R615-3-3, Oil and Gas Conservation General Rules.

In addition, the following actions are necessary to fully comply with this approval:

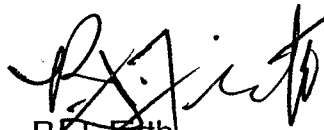
1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form 7.
4. Prompt notification if it is necessary to plug and abandon the well. Notify R. J. Firth, Associate Director, (Office) (801) 538-5340, (Home) 571-6068, or Jim Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Rule R615-3-20, Gas Flaring or Venting, Oil and Gas Conservation General Rules.

Page 2
Chuska Energy Company
Cajon Summit 9M #1
September 28, 1990

6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31563.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

tas
Enclosures
cc: Bureau of Land Management
Bureau of Indian Affairs
J. L. Thompson
we14/1-2

DIVISION OF OIL, GAS AND MINING

API NO. 43-037-31563

DR

SPODDING INFORMATION

NAME OF COMPANY: CHUSKA ENERGY COMPANY

WELL NAME: CAJON SUMMIT 9M-#1

SECTION SWSW 9 TOWNSHIP 40S RANGE 25E COUNTY SAN JUAN

DRILLING CONTRACTOR BIRCHNESS

RIG # #1

SPODDED: DATE 11-5-90

TIME 3:00 p.m.

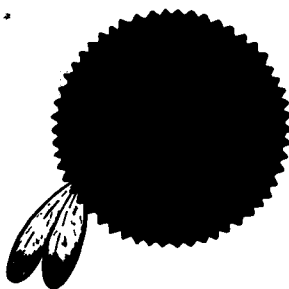
HOW ROTARY

DRILLING WILL COMMENCE

REPORTED BY TOM MCCARTHY

TELEPHONE # 505-326-5525

DATE 11-6-90 SIGNED TAS TAKEN BY: DEE



CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

P.O. BOX 780 • FARMINGTON, NEW MEXICO 87499

12 November, 1990

State of Utah Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Building, Suite 350
Salt Lake City, Utah 84180-1203

RECEIVED
NOV 15 1990
DIVISION OF
OIL, GAS & MINING

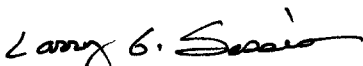
Ref: Sundry Notice: Cajon Summit 9M-1 Well
Spud/Set Surface Casing

Gentlemen

Attached for your examination and approval is the original and two copies of the subject Sundry Notice.

Please advise if you require additional information concerning this submission.

Sincerely,


Larry G. Sessions
Operations Manager

LGS/csw
File: C:\WP51\CAJNSUMM.9M\SUNCOVER

encl.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM - FORM 6

OPERATOR Chuska Energy Company
ADDRESS P.O. Box 780, Farmington, New Mexico 87499

OPERATOR ACCT. NO. N 9290

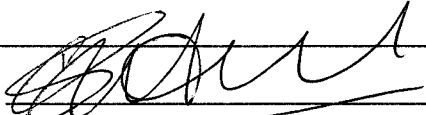
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11135	43-037-31563	Cajon Summit 9M #1	SW/SW	9	40S	25E	San Juan	11-5-90	
WELL 1 COMMENTS: Spudded well at 1330 hrs, 11-5-90, with Burgess Corrosion Inc. Rig #1. Verbal notification given to BLM and State of Utah on 11-5-90, by Tom R. McCarthy.											
WELL 2 COMMENTS: Indian-Lease Field-Undesignated Unit-N/A Proposed Zone-Akah (New entity 11135 added 11-19-90) for											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

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ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.


Signature
Petroleum Engineer
Title
Phone No. 505-326-5525
Date 11-12-90

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☐ Well File Cayon Summit
9M-1
(Location) Sec 9 Twp 40S Rng 25E
(API No.) _____

☐ Suspense
(Return Date) _____
(To - Initials) _____

☐ Other

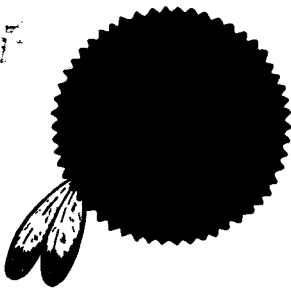
1. Date of Phone Call: 11-30-90 Time: 3:50 AM

2. DOGM Employee (name) F. R. MATTHEWS (Initiated Call ☐)
Talked to:

Name Chris Hill (Initiated Call ☒) - Phone No. 505 326-5525
of (Company/Organization) Chuska

3. Topic of Conversation: Plugging of Cayon
Summit 9M-1

4. Highlights of Conversation: Will set plugs over
all productive intervals \pm 50' inside
 \pm 50' outside of surface \pm 50'
plug at surface.



CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

P.O. BOX 780 • FARMINGTON, NEW MEXICO 87499

3 December, 1990

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DEC 06 1990

State of Utah Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Building, Suite 350
Salt Lake City, Utah 84180-1203

**DIVISION OF
OIL, GAS & MINING**

Ref: Sundry Notice: Cajon Summit 9M-1 Well Abandonment

Gentlemen

Attached for your examination and approval is the original and two copies of the subject Sundry Notice.

Please advise if you require additional information concerning this submission.

Sincerely,


Larry G. Sessions
Operations Manager

LGS/csw
File: C:\WP51\CAJNSUMM.9M\P&ASUN.CVR

encl.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT--" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NOG 8702-1116	
2. NAME OF OPERATOR Chuska Energy Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo Tribal	
3. ADDRESS OF OPERATOR P.O. Box 780, Farmington, New Mexico 87499		7. UNIT AGREEMENT NAME Cajon Summit 9M	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 470' FSL, 890' FWL		8. FIELD OR LEASE NAME Wildcat	
At proposed prod. zone Same		9. WELL NO. 1	
10. FIELD AND POOL, OR WILDCAT Wildcat		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA S9 T40S R25E	
14. PERMIT NO. 43-037-31563	15. ELEVATIONS (Show whether OF, RT, GR etc.) 4,960' GR	12. COUNTY OR PARISH San Juan	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
(Other) ☐

PULL OR ALTER CASING ☐
MULTIPLE ☐
ABANDON* ☐
CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐
FRACTURE TREATMENT ☐
SHOOTING OR ACIDIZING ☐
(Other) ☐

REPAIRING WELL ☐
ALTERING CASING ☐
ABANDONMENT* ☒

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log Form)

APPROX. DATE WORK WILL START _____

DATE OF COMPLETION 12-1-90

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS: (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

* Must be accompanied by a cement verification report.

Drilled to 6,022' TD. After Evaluation, plugged and abandoned well. Verbal notification of intent to P & A given to State of Utah (Frank Matthews) by Chris Hill at 1550 hrs, 11-30-90.

Plug #1: 6020'-5604'	160 sx Class 'G'	Desert Creek, Lower Ismay, Upper Ismay
Plug #2: 4800'-4700'	50 sx Class 'G'	Hermosa
Plug #3: 2825'-2725'	50 sx Class 'G'	DeChelly
Plug #4: 1750'-1650'	50 sx Class 'G'	Chinle
Plug #5: 538'- 438'	50 sx Class 'G'	Surface Casing Shoe
Plug #6: 50'- 0'	20 sx Class 'G'	Surface

Plugging operations completed 1030 hrs, 12-1-90. Rig released 1600 hrs, 12-1-90.

18. I hereby certify that the foregoing is true and correct

SIGNED

Christopher S.W. Hill

TITLE Petroleum Engineer

DATE 3 December, 1990

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

See Instructions On Reverse Side



CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

P.O. BOX 780 • FARMINGTON, NEW MEXICO 87499

RECEIVED
DEC 13 1990

10 December, 1990

State of Utah Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Building, Suite 350
Salt Lake City, Utah 84180-1203

DIVISION OF
OIL, GAS & MINING

Ref: Completion Report: Cajon Summit 9M-1 Well

Gentlemen

Attached for your examination and approval is the original and two copies of the subject Completion Report.

Please advise if you require additional information concerning this submission.

Sincerely,

Larry G. Sessions
Operations Manager

LGS/csw

File: C:\WP51\CAJNSUMM.9M\CRCOVER

encl.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input checked="" type="checkbox"/> Other _____ b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR <input type="checkbox"/> Other _____						5. LEASE DESIGNATION AND SERIAL NO. NOG 8702-1116	
						6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo Tribal	
2. NAME OF OPERATOR Chuska Energy Company						7. UNIT AGREEMENT NAME FARM OR LEASE NAME Cajon Summit 9M	
3. ADDRESS OF OPERATOR P.O. Box 780, Farmington, New Mexico 87499						WELL NO. 1	
4. LOCATION OF WELL (Report location clearly and in accordance with any State regulations) At Surface 470' FSL, 890' FWL At top prod. interval reported below Same At total depth Same						10. FIELD AND POOL, OR WILDCAT Wildcat	
14. API NO. 43-037-31563 DATE ISSUED 9-28-90						11. SEC., T., R., N., OR BLOCK AND SURVEY OR AREA S9 T40S R25E	
15. DATE SPUDDED 11-5-90		16. DATE T.D. REACHED 11-28-90		17. DATE COMPL. (Ready to prod.) 12-1-90 (Plug & Abd.)		18. ELEVATIONS (DF, RKB, RT, GR ETC.) 4,960' GR	
19. ELEV. CASINGHEAD 4,960'		20. TOTAL DEPTH, MD & 6,022' MD		21. PLUG BACK T.D., MD & TYD Surface		22. IF MULTIPLE COMPL., HOW MANY -	
23. INTERVALS DRILLED BY Rotary						24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TYD) -	
25. WAS DIRECTIONAL SURVEY MADE No						26. TYPE ELECTRIC AND OTHER LOGS RUN LDT/CNL/GR/Cal, DLL/MSFL/GR/Cal BHCS/GR/Cal, MSCT	
27. WAS WELL CORED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> (Submit analysis) DRILL STEM TEST YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> (See reverse side)						28. CASING RECORD (Report all strings set in well)	
CASING SIZE 8 5/8"		WEIGHT, LB./FT. 24		DEPTH SET (MD) 500		HOLE SIZE 12 1/4"	
CEMENTING RECORD 400 sx 'G' Cement to surface		AMOUNT PULLED -		29. LINER RECORD		30. TUBING RECORD	
SIZE -		TOP (MD) -		BOTTOM (MD) -		SACKS CEMENT -	
SCREEN (MD) -		SIZE -		DEPTH SET (MD) -		PACKER SET (MD) -	
31. PERFORATION RECORD (Interval, size and number) -						32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL (MD) -				AMOUNT AND KIND OF MATERIAL USED -			
33. PRODUCTION				DATE FIRST PRODUCTION -			
PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) -				WELL STATUS (Producing or shut in) P & A			
DATE OF TEST -		HOURS TESTED -		CHOKE SIZE -		PROD'N. FOR TEST PERIOD -	
OIL - BBL. -		GAS - MCF. -		WATER - BBL. -		GAS-OIL RATIO -	
FLOW. TUBING PRESS. -		CASING PRESSURE -		CALCULATED 24-HOUR RATE -		OIL GRAVITY-API (CORR.) -	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) -						TEST WITNESSED BY -	
35. LIST OF ATTACHMENTS -							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED Christopher S.W. Hill		TITLE Petroleum Engineer				DATE 12-3-90	

See Spaces for Additional Data on Reverse Side

INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

ITEM 18: Indicate which elevation is used as reference for depth measurements given in other spaces on this form and on any attachments.

ITEMS 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

ITEM 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

ITEM 33: Submit a separate completion report on this form for each interval to be separately produced (see instructions for items 22 and 24 above).

37. SUMMARY OF POROUS ZONES

Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut in pressures, and recoveries.

37. SUMMARY OF POROUS ZONES			38. GEOLOGIC MARKERS		
Formation	Top	Bottom	Description, contents, etc.	Name	Meas. Depth True Vert. Depth Top
Desert Creek	5930	5956	<p>Limestone/Dolomite, minor Anhydrite</p> <p><u>Drill Stem Test #1</u></p> <p>5930 - 5956: Desert Creek</p> <p>IHP: 2835 psig</p> <p>IFP 10 min: 53-106 psig</p> <p>ISIP 60 min: 21 psig</p> <p>FFP 60 min: 146 - 398 psig</p> <p>FSIP 120 min: 21 psig</p> <p>FHP: 2835 psig</p> <p>Rec 243' mud cut salt water,</p> <p>504' salt water, 30' mud from pipe,</p> <p>25 cc water from sample chamber</p>	<p>Navajo</p> <p>Chinle</p> <p>DeChelly</p> <p>Organ Rock</p> <p>Cedar Mesa</p> <p>Hermosa</p> <p>Upper Ismay</p> <p>Lower Ismay</p> <p>Desert Creek</p> <p>Akah</p>	<p>1023</p> <p>1690</p> <p>2770</p> <p>2927</p> <p>3598</p> <p>4746</p> <p>5654</p> <p>5765</p> <p>5829</p> <p>5962</p> <p>6022</p>



CHUSKA ENERGY COMPANY

1775 SHERMAN STREET - SUITE 1800 • DENVER, COLORADO 80203 • PHONE: (303) 863-7021
FAX #: (303) 863-7210

May 17, 1991

Ms. Vicki Kearney
Utah Oil & Gas Commission
355 West North Temple
Three Triad Center
Suite 350
Salt Lake City, Utah
84180-1203

Dear Ms. Kearney:

Please keep all Chuska Energy Company data confidential until further notice.

Thanks,

Herbert P. Mosca
Chuska Staff Geologist

RECEIVED

MAY 20 1991

DIVISION OF
OIL GAS & MINING